

CableMaster 400

Voice, Data & Video Tester

User Manual

- Tests Voice (6 wire), Data (8 wire) and Video (coax)
- Easy to read, extra large 7-segment LCD screen with large icons
- Tone generation over voice, data and video cables, with 4 different tones
- RJ (Voice & Data) master remote stores in bottom of case
- Maps 19 locations at one time
- Tests and indicates pins with shorts, opens, reversals, miswires and split pairs
- Displays "Pass" icon for correctly wired T568A/B and crossover/uplink
- Displays "Pass" icon for correctly wired 6-pin telephone plus "Rev" for reverse-pinned
- Low power consumption for long battery life
- Auto power-off





Cable Master

Voice, Data & Video Tester

User Manual

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ABOUT THIS MANUAL

The CableMaster is a handheld device used by contractors, repair technicians, and other authorized users to test, identify, and detect potential faults in voice, video and data cables. The test unit offers the following three features:

Feature	Function
Continuity Testing	Discerns if the voice, data, and/or video cables being tested have been wired correctly with no faults.
ID Mapping	Identifies cables and determines their exact location.
Tone Mode	Verifies cable wiring paths by sound.

Symbols & Icons

The following symbols, listed in Table 1, are used throughout the manual or in the display screen of the test unit to help you avoid personal injury and potential damage to the test equipment.

Table 1. Symbols and Icons

Symbol	Definition
<u></u>	Warning: Potential for personal injury Caution: Potential for damage or destruction to equipment.
Voltage!	Voltage detection symbol. Immediately disconnect cables from the main or remote tester.
CE	Conformité Européenne. Conforms with European Economic Area directives.
7	Disposal information



Terms and Descriptions

Table 2 defines the terms used throughout the document and provides information to assist you with proper operation and understanding of the test unit.

Table 2. Terms and Descriptions

Terms	Description and Uses
Video cable	Coax cable with a single pair (2 pin) wiring system The pins are paired in order of continuity Test this cable using the F-Connector on the main test unit
Data cable	Data cables with a 4 pair (8 pin) wiring system • Pin pairs are not wired by continuity, but follow a cabling standard • Test this cable using the RJ45 adaptor on main test unit
Cabling Standards	Standard wiring design of a cable. The pairing of wires differs according to cable type. • Many standards adopt a wire coloring system to help ensure proper pin pairing • Common data cable wiring standards are known as T568A/B
Voice cable	Phone cable with a 3 pair (6 pin) wiring system The pins are paired by continuity, except in the case of a reverse pinned voice cable Use the RJ11 adaptor on the main test unit to test a voice cable
Pins	Individual wires within a cable • Two pins paired together are known as pin pairs
F-Connector	Jack for a coax cable
RJ Jack	Connector for a voice or data cable. RJ stands for Registered Jack. • The connector can be located on the tester itself. When mounted on a wall, the RJ Jack is known as a wall port. • RJ11 is voice jack • RJ45 is data jack

Safety Information

To ensure safe operation of the CableMaster, follow the instructions carefully and observe the warning and caution messages listed in Table 3. Failure to observe warnings can result in severe injury or death and can cause damage to the tester.

Table 3. Safety Information

Notification Definition



The CableMaster is designed for use on unenergized cabling systems. Connecting the CableMaster to live AC power may damage the unit and pose a safety hazard for the user



Poorly terminated RJ plugs have the potential to damage the jacks on the CableMaster. Visually inspect an RJ plug before inserting it into the main or remote tester to ensure you are placing the plug into the appropriate jack.



The cable's contacts should always be recessed into the plastic housing of the receiving jack. Plugging a 6-position phone plug into the 8-position data jack on the tester has the potential to damage the outer-most contacts of the jack. Insert the cable into the appropriate connector on remote or main tester.



Do not place equipment and its accessories in the trash. Items must be properly disposed in accordance with local regulations



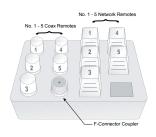
ACCESSORIES

The accessories listed in Table 4 below are provided with your purchase of the CableMaster. These accessories must be used when operating the unit in order to properly test and identify cables. Refer to the **Additional Accessories** section for a listing of additional products that can help make testing easier.

Table 4. CableMaster Accessories

Accessory

Description



1-5 Network/Coax ID Remotes with F-Connector Coupler, F81



Cable assembly, RJ45 to Alligator Clips — 12"

DESIGN FEATURES

- Easy to operate
- Extra large seven-segment LCD screen with icons that clearly display test results
- Tests data (8-wire), voice (6-wire) and video (2-wire) cabling systems
- RJ (Voice & Data) test remote stores in bottom of case plus a video ID remote is included
- Wire mapping remotes for mapping cable runs to wall outlets accompany the CableMaster
- Cable test results displayed in wire map format with connector pin numbers
- Tests and indicates pins with shorts, opens, reversals, miswires and split pairs
- Displays "Pass" icon for correctly wired T568A/B data cables
- Shows "X-over" for correctly wired cross-over (uplink) data cables and displays "Rev" for correctly wired reverse-pinned voice cables
- Tone generator has a selectable tone cadence which is applied to selected pins or pin pairs
- Conserves power and supports long battery life with Auto-off feature and battery low icon
- Video and data cables can be connected to the tester at the same time to improve testing efficiency
- Patch cables may be tested without detaching the remote from the main tester



CableMaster Description

The CableMaster, illustrated in Figure 1, has four main parts: the connectors, the LCD display screen, the keypad, and the remote tester.

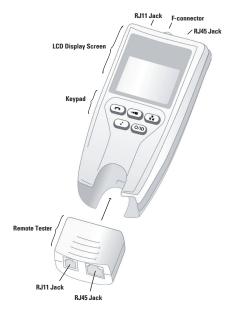


Figure 1, CableMaster

Jacks and Connectors

The main unit connectors located at the top of the CableMaster include two RJ Jacks for data and voice cables and one F-Connector for video cables.

Remote Tester

The remote tester can be detached from the main unit to test cables over a distance. The remote test unit has two RJ Jacks for data and voice cables and is integral to the testing process. Refer to the **Operations** section of the manual for detailed instructions on cable testing.

LCD Display Screen

The main tester has a high contrast LCD display screen, shown in Figure 2 below. The LCD screen displays the following: test mode, pass/special cables, cable faults, shield indicator, battery capacity, locator ID#, voltage detection, and wire mapping.

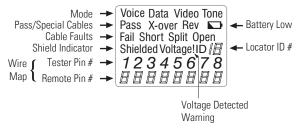


Figure 2. LCD Display Screen

Test Mode

The top line of the display shows the cable type test mode (voice, data, and video).

Tone Mode

Tone Mode must be used with a tone tracer probe. The probe allows you to trace cable wiring paths and identify potential faults by sound. The following icons appear in the display screen when Tone Mode is in use:

- Cadence There are four cadence options: HI, LO, Hi-Lo1, and Hi-Lo2. The last selected cadence appears in the lower right corner of the display screen.
- Tone Path Selection When tracing a video cable, the selected cadence is transmitted on the coax pin ("P"), the coax shield ("S"), or both the pin and shield ("PS"). The icons related to the current tone path selection appear in the lower left corner of LCD display screen.

Note: The tone tracer probe is sold separately (refer to the **Additional Accessories** section)



Pass/Special Cables

The second row of the display screen corresponds to the wiring structure of the cable being tested. The CableMaster displays the following three icons:

- Pass The "Pass" icon appears if the cable has a properly wired
 4-pair T568A/B data cable, a 3-pair one-to-one wired voice cable, or a video cable with no faults.
- X-over This icon displays if a properly wired cross-over (uplink) data cable is recognized. A crossover cable is a data cable with the 1-2 pair wired to the 3-6 pair. This allows an Ethernet NIC card without MDIX capability to communicate by wiring the transmit end of the cable to the receiver on the opposite end of the cable.
- Rev The "Rev" icon is displayed when the cable is a properly wired reverse-pinned voice cable. A reverse-pinned voice cable has all wires on one cable connector ordered by continuity and the connector on the opposite end of the cable has the pins located in a reversed order. Pin 1 connects to Pin 6 on the opposite connector; Pin 2 connects to Pin 5 and so on.

Cable Faults

There are four possible error conditions on the cable: Fail, Short, Split, and Open. Cable faults appear in the third row of the LCD screen. The faults are described in Table 5 below. Refer to the **Appendix** for a visual representation of cable faults and how they appear in the Wire Map.

Table 5. Cable Faults

Cable Fault	Description	
Fail	A "Fail" error occurs when a cable's wire connections do not follow cabling standards. This icon will illuminate when any cable fault is detected. Any miswired pin pairs will flash in the Wire Map	
Open	An "Open" error means a wire connection within the cable is not continuous through the length of the cable. • The pin pairs with errors will flash in the Tester Pin # field of the Wire Map and will be blank in the Remote Pin # field	
Short	The "Short" icon appears when two or more wires within a cable are electrically connected. This is also known as a short circuit. • A dash (-) will appear in the Remote Pin # field to indicate the shorted pin pairs • This dash will appear directly below the flashing pairs in the Tester Pin # field	
Split	A split, also known as an AC signal fault, occurs when wires are not twisted together according to their cabling standard. This miswire commonly occurs with pins 3, 4, 5, and 6 in a data cable The pin pairs experiencing the split will flash in the Remote Pin # fields of the wiring map	

Note: Open and Short errors take precedence over miswires and the appropriate icon(s) will appear in the display screen.

If the pairs displayed in the Wire Map are flashing, the cable has a problem (split, open, short, or fail). If the pairs are not flashing, the cable is wired properly and a "Pass" icon will appear.

The accuracy of the CableMaster is limited to identifying the pin pairs with errors. It cannot identify the individual pin experiencing the error.



Shield Indicator

The "Shielded" icon, appearing in the fourth line of the LCD screen, illuminates when a shielded data cable is properly wired at both ends. The icon flashes if the shield is shorted to a pin in the cable. The shorted pins display in the Wire Map and the "Short" indicator appears.

Wire Map: Tester Pin

The top line in the Wire Map shows the pin numbers of the cables connected to the main tester. If a cable fault is detected, the pin pairs experiencing the error will flash.

Wire Map: Remote Pin

The bottom line of the Wire Map corresponds to cables connected to the remote tester. The Remote Pin # field will show if the connected cables have errors (short, open, fail, and split). The appearance of dash lines indicates shorted pins. No number displayed in the Remote Pin Number line indicates Open pins. Pin pairs will flash if they are split.

Battery Low

The battery low symbol illuminates when the battery is nearing depletion. The symbol flashes when the battery needs to be replaced.

Note: Results may be unreliable at this point so the battery should be replaced.

Location ID

The "ID" symbol, located in the third line of the LCD screen, appears when the CableMaster is in Video, Data or ID Mode. When using the wire mapping remotes, the "ID" icon will turn on and the remote ID number will display to its right. The ID number is not displayed if an error occurs, such as "Open" or "Short".

Voltage Detected Warning

If voltage is detected on any of the cable connectors, the "Voltage!" icon flashes. A check for voltage is performed before each test and if found, no test is run. If the icon appears, the tester should be disconnected immediately from the source of the voltage. The tester automatically powers down in 90 seconds if the detected voltage is not removed.

Keypad

The CableMaster is equipped with five buttons, illustrated in Figure 3. Some buttons have more than one function. The functions are explained in Table 6. For each cable test, results are displayed in the Wire Map of the LCD display screen.

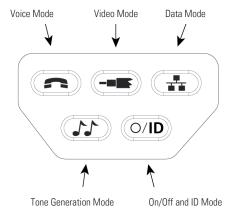


Figure 3. Keypad



Table 6. Keypad

Keypad Button

Description



The Voice button tests voice cables.

- Voice
- Each press of the button causes one test to be run on
- the 6-position RJ iack Hold the button down to start/stop continuous testing



The Video button tests coax cables terminating at an F-Connector

Video



The Data button tests data cables.

- Each press of the data button runs one test on the 8-position RJ jack
- Hold the button down to start/stop continuous testing



The Tone Mode button is used with a tone tracer probe to identify faults in cables via sound.

 One press of the button sends an audio tone from the tester through the selected wire pairs of the cable being tested

Tone

This button has two functions: Turning the unit On/Off and ID Mode

POWER



- In any test mode, one press of the O/ID button turns the CableMaster Off
- Subsequent presses of the button turn the unit On/Off

Power/ID Mode

ID MODE

ID Mode is used with wire mapping remotes to identify cable runs.

- When the CableMaster is Off, one press of this button turns the unit on and begins ID mode
- ID Mode scans all cable types (voice, video, and data) and displays any detected wire mapping remotes

Note: To run a continuous test on data or voice cables, press and hold down the corresponding mode button until "LOOP ON" appears. Tests will execute until another cable test mode or O/ID buttons are pressed or after 5 minutes of no change in the test result.

OPERATIONS

To ensure safe operation of the CableMaster, follow the instructions carefully and pay attention to the warning and caution symbols. Failure to observe warnings can result in severe injury or death and can cause damage to the tester.

Turning the Unit On/Off

Turn Unit On

 Press the desired cable type button (voice, video, data, tone or ID) to start testing in that mode immediately.

Turn Unit Off

 Press the O/ID button to power down the tester. The display screen will go blank

Automatic Power Down

The CableMaster automatically turns off to conserve battery power. The automatic power down feature varies according to which cable test mode is in use (see Table 7). The power down timer is restarted whenever a button is pressed.

Table 7. Automatic Power Down

Test Mode	Time	
Voice	18 sec. (5 minutes when looping)	
Data	18 sec. (5 minutes when looping)	
Video	5 minutes	
ID	5 minutes	
Tone	60 minutes	



Cable Testing General Guidelines

The CableMaster tests video, data, and voice cables to detect potential faults, shows a cable's wire pairing, and examines the physical properties of a cable

Important Points to Note

- The RJ jacks for data and voice cables share internal connections within the tester. Only one RJ cable can be connected at a time for accurate cable test results.
- An RJ cable and a coax cable may be connected at the same time. In ID mode, all connectors on the Tester may be connected at the same time.
- To easily toggle between cable test modes, press the desired cable type button.

Important Points to Note



The CableMaster is designed for use on unenergized cabling systems. Connecting the CableMaster to live AC power may damage the unit and pose a safety hazard for the user.



Poorly terminated RJ plugs, the head of a cable, have the potential to damage the jacks on the CableMaster. Visually inspect the RJ plug before inserting it into the tester to ensure you are inserting the plug into the appropriate jack of the remote-end or tester-end of the unit (ex. data cable plug fits into data jack on the unit).



The cable's contacts should always be recessed into the plastic housing of the receiving jack. Plugging a 6-position phone plug into the 8-position data jack on the tester has the potential to damage the outer-most contacts of the jack. Insert the cable into the appropriate connector on the remote end or tester end of the unit.

Testing Voice Cables

Testing a voice cable is a 2-end test where one end is connected to the main tester and the other end is connected to the remote tester.



Plug the cable into the appropriate jacks on the main tester and remote tester. Failure to do so can damage the connectors.

- Insert one end of the cable into the RJ11 jack on the main tester.
- Place the other end of the cable into the RJ Jack on the remote tester.
- Single Test: To run a single test on the 6-position connected voice cable, press the VOICE MODE button. The following appears in the LCD display screen (see Figure 4):
 - The "Voice" icon appears in the upper left corner.
 - The cable wiring structure displays (Pass, X-over, or Rev).
 - The "ID" icon appears with remote #1 displayed as the cable is connected to the remote tester.
 - The Wire Map fields update to indicate any cable faults. A perfectly wired voice cable will display all pins (1-6) in both fields of the Wire Map display.

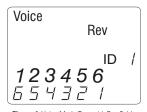


Figure 4. Voice Mode Test with Rev Cable



 Continuous Test: To run a continuous test, press and hold down the VOICE MODE button until "LOOP ON" appears in the display (see Figure 5 below). When looping is active, three small moving "bars" appear on the right side of the display screen. The display screen will update with the icons and values that appear during a single test (see Figure 4).

To turn test looping OFF, press and hold down the VOICE MODE button until "LOOP OFF" appears.

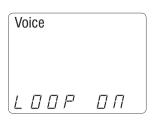


Figure 5. Loop Testing in Voice Mode

Note: The test loops until the VOICE MODE button is held down, or the O/ID button is pressed, or after 5 minutes of no change in the test results

- 2. Trouble-shoot if cable faults (open, short, fail, or split) are detected.
 - The pins experiencing error(s) appear in the Wire Map of the display screen.
 - Refer to the LCD Display Screen section for details of the cable faults.

Note: If the cable is a properly wired, reverse-pinned voice cable, the "Rev" symbol will illuminate and blink in the LCD screen. The Wire Map will display the reverse wired pin connections.

Testing Video Cables

 Connect the provided F-Connector coupler to the F-Connector at the top of the main tester (see Figure 6 below).



Figure 6. F-Connector on Main Tester

- 2. Screw one end of the video cable into the F-Connector coupler.
- 3. Secure a Coax remote to the opposite end of the video cable.
- Press the VIDEO MODE button to start continuous testing. The following updates appear in the LCD display screen (see Figure 7):
 - The "Video" icon illuminates in the upper right corner.
 - A progression of "o's" appear on the bottom of the display to indicate active testing.
 - The cable wiring structure displays (Pass, X-over, or Rev).
 - The "ID" icon appears with the Coax wire mapping remote number to its right.

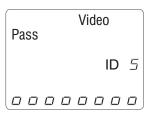


Figure 7. Loop Testing in Video Mode

Note: The tests run until the O/ID button is pressed or when 5 minutes elapses with no change in the test results.

5. Trouble-shoot if cable faults (open or short) are detected.



Testing Data Cables

Testing a data cable is a 2-end test where one end is connected to the main tester and the other end is connected to the remote tester.

- 1. Plug one end of the data cable into the RJ45 jack on the main tester.
 - Visually inspect the tester to make sure you are inserting the cable into the appropriate jack.
- 2. Insert the opposite end of the cable into the RJ45 jack on the remote tester.
- Single Test. To run a single test, press the DATA MODE button. The following appears in the display screen (see Figure 8):
 - The "Data" icon appears at the top of the screen.
 - The cable wiring structure displays (Pass, X-over, or Rev).
 - The "ID" icon appears with remote #1 displayed as the cable is connected to the remote tester
 - The Wire Map fields update to indicate any cable faults. A
 perfectly wired data cable will display all pins (1-8) in both
 fields of the Wire Map display.

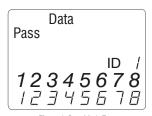


Figure 8. Data Mode Test

4 Continuous Test. To run a continuous test on the data cable, press and hold down the DATA MODE button until "LOOP ON" appears in the screen. When looping is active, three small moving "bars" appear on the right side of the display screen. The display screen will update with the icons and values that appear during a single test.

The turn OFF loop testing, press and hold down the DATA MODE button until "LOOP OFF" appears (see Figure 9).

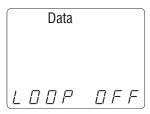


Figure 9. Loop Off in Data Mode

Note: The test loops until the DATA MODE button is held down, or O/ID button is pressed, or after 5 minutes of no change in the test result.

- 5. Interpret display results and trouble-shoot potential cable faults.
 - The pins experiencing error(s) appear in the Wire Map of the display screen.
 - Refer to the LCD Display Screen section for details of the cable faults

Note: The "X-over" symbol will appear if a properly wired (uplink) data cable is detected. The Wire Map will show the pin connections with the crossover. Refer to the LCD Display Screen section for details



Using ID Mode

The ID functionality of the CableMaster identifies cables using remotes. Each remote is numbered sequentially to help you easily identify cables.

- Make sure the CableMaster is turned OFF.
- Insert the cable plug into the corresponding receiver on the main tester (RJ11 jack for voice cables, RJ45 jack for data cables, F-Connector for video cables).
- For data or voice cables, insert a Network or Voice wire mapping remote into an RJ Jack wall port. For video cables, attach Coax wire mapping remote(s) to the F-Connector coax wall receiver.
- 4. Press the O/ID button to turn the tester ON and enter ID Mode. Wire mapping results display as follows:
 - A progression of "o's" appear on the bottom of the display to indicate ID Mode is active.
 - If wire mapping remotes are found, the connector type illuminates and a numeric value (1 to 19) appears in the ID field
 of the display screen showing the wire mapping remotes that
 match the connected cable (see Figure 10).
 - If wire mapping remotes are not found, "Open" displays in the LCD screen.
 - If multiple wire mapping remotes are found, the ID or fault is displayed automatically in sequence

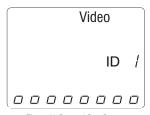


Figure 10. Detected Coax Remote

Using Tone Mode

Tone Mode is used to trace cable runs and locate faults by sound. Selection of this mode emits a cadence from the main tester through the connected cable. The tone is detected by a tone tracer probe (sold separately. Refer to the **Additional Accessories** section).

Note: It may be impossible to differentiate between the tone generated from the test pair and the sound emitted by neighboring wiring pairs within the cable.

- Connect one end of the cable to the main tester. The remote tester is not used.
- 2 Press the TONE MODE button
- To select a Tone Cadence, press the TONE MODE button repeatedly to step through the 4 cadence options: HI, LO, Hi-Lo1, and Hi-Lo2. Stop when you reach the option you want.

The option you select determines the cadence sent from the main tester, through the cable, and picked up by the tone tracer probe.

Note: If you do not adjust the cadence, the main tester will default to the last selected cadence

- 4. Press the appropriate cable type button (voice, video, or data) to select a cable for the tone signal.
- 5. Press the cable type button again to select different combinations of pins to carry the tone signal. Each press of the cable type button steps you through the cable's wire pairs. The selected pin pair appears in the Wire Map. Figure 11 shows pin pairs 1 and 2 selected for testing a data cable.

The following appears in the LCD display screen:

- The cable type icon appears at the top of the screen.
- The "Tone" icon displays in the upper right corner of the screen
- Three progression bars appear above pins 7 and 8 demonstrating you are in active Tone Mode.



 The selected pin pairs appear in the wire map of the display screen.

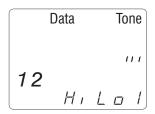


Figure 11. Tone Mode with Data Cable Selected and Hi-Lo1 cadence

Note: For tracing video cables, you must choose a tone path to transmit the cadence (pin (P), shield (S), or both (PS)).

Continuous presses of the VIDEO MODE buttons steps through the tone path options. Figure 12 below shows "P" selection in Video Mode.



Figure 12. Video Cable Test with Pin Selected

6. Use the tone tracer probe to locate faults and track wire runs behind walls, floors, and ceilings.

MAINTENANCE

Battery Replacement

- Remove the single screw, located in the middle of the back of the CableMaster, with a #1 Philips head screwdriver.
- 2. Take out the old battery and disconnect the battery cable.
- Replace the old battery with an ANSI 1604A, 9 volt alkaline battery (Energizer 522, Duracell MN1604). Reattach the cable to the new battery and place the new battery into the battery compartment.
- 4. Return the battery door to the unit and turn the screw into place to secure the battery door.



Do not over tighten the battery door. Doing so can damage the test unit

Cleaning

Use a damp, clean cloth to clean the tester.



Disconnect all cables from the CableMaster prior to cleaning. Failing to do so can damage the unit and result in personal injury.

Do not use abrasive, harsh cleaners, or solvents to clean the CableMaster

Storage

When the CableMaster is not in use, store it in a dry, protective case. The battery should be removed if the tester is stored for a long period of time.

Do not expose the CableMaster to high temperatures or humidity. When stored in temperatures exceeding the limits listed in the **Specifications** section, allow the CableMaster to return to the normal, recommended operating conditions prior to use.



CUSTOMER SERVICE

Contacting Psiber Data

For technical information and support please contact the Psiber Office in your country.

Psiber Europe: Psiber Data GmbH, a Softing Company

Phone: +49 (89) 8913 6060,

e-mail: info@psiber-data.com, www.psiberdata.com,

Psiber Asia/Pazific: Psiber Data Pte. Ltd., a Softing Company

Phone: +65-6569-6019.

e-mail: asiasales@psiber-data.com, www.psiberdata.com

Additional Accessories

Table 8 below lists the additional accessories that are available for purchase through Psiber Data. Contact Psiber Data for more information.

Table 8. Additional Accessories

table 6. Additional Accessories		
Accessory	Description	
	Tone Probe	
ELECTION OF THE PARTY OF THE PA	(1 – 19) Coax wire mapping remotes with 20 hole foam remote holder	
	(1 – 19) Network wire mapping remotes with 20 hole foam remote holder	

Warranty

Psiber Data warrants that the product shall be free from defects in parts or workmanship for a period of 12 months from the date of purchase if used in accordance with Psiber Data operating specifications.

THIS IS THE ONLY WARRANTY MADE BY Psiber Data AND IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

Should any parts or workmanship prove defective, Psiber Data will repair or replace at Psiber Data' option, at no cost to the Buyer except for shipping costs from the Buyer's location to Psiber Data. This is Buyer's SOLE AND EXCLUSIVE REMEDY under this Agreement. This warranty does not apply to products which have been subject to neglect, accident or improper use, or to units which have been altered or repaired by other than an authorized repair facility.

For European-Customers:

Return of Equipment – To return a product to Psiber Data GmbH, first obtain a Return Authorization number from our Customer Service by calling +49-89-89136060. The RA# must be clearly marked on the shipping label.

To: Psiber Data GmbH a Softing Company Lise-Meitner-Straße 3 D-82152 Krailling

RMA-Nr. XXXXXX

For ASIA/PACIFIC-Customer:

Return of Equipment - To return a product to Psiber Data Pte. Ltd., first obtain a Return Authorization number from Our Customer Service by calling +65-6569-6019 or e-mail:

asiasales@psiber-data.com. The RA# must be clearly marked on The shipping label.

To: Psiber Data Pte. Ltd. a Softing Company

3 Science Park Drive #03-09 The Franklin Singapore Science Park 1.

Singapore 118223

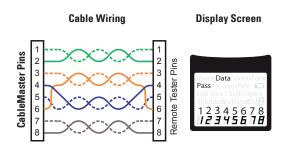
RA# XXXXXXXX

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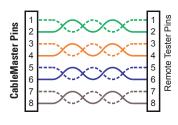
SPECIFICATIONS	
Specifications	Description
Physical Dimensions	Size: 16.3 x 7.1 x 3.6 cm (6.4 x 2.8 x 1.4 inches) Weight: 256 grams (9.0 oz) with battery and remote-end of tester
Power	1 9V alkaline battery Active: 425 hours Standby: 4 years
Maximum Voltage	Parameters refer to the maximum voltage that can be applied to any 2 connector pins without causing damage to the tester. RJ Jack: 66 Vdc or 55 Vac F-Connector: 50 Vdc or Vac
Operating Environ- ment	 Operating temperature: 0 to 50 °C (32 to 122 °F) Storage temperature: -20 to 60 °C (-4 to 140 °F) Humidity: 10% to 90%, non-condensing
Cable Types	Tester supports shielded or unshielded cables, Cat-7, Cat-6x, Cat-5E, Cat-5, Cat-4, Cat-3, and Coax cables.
Maximum RJ Cable Length	0 to 305 meters (1,000 feet)
Minimum Cable Length for Split Pair Detection	0.5 meters (1.5 feet)
Maximum Coax Cable Length	100 ohms maximum DC resistance, center conductor plus shield
Low Battery	lcon flashes when battery voltage falls below 6V
Compliance	C € Complies with Conformité Européenne directives.

APPENDIX: CABLE WIRING AND DISPLAY SCREEN



Properly Wired T568A Data Cable

T568B is electrically identical to T568A, but swaps the green and orange pairs. Either standard will work as long as the same standard is used at both ends of a run or patch cable. Missing standards A and B creates a cross-over cable. In the event of a cross-over, the "X-over" icon will display and mismatched pins will flash in the wire map.





T568A Data Cable with Split Pairs

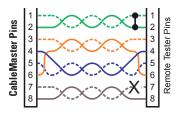
A common error in building a cable is to put all the wires in pin sequence -1-2, 3-4, 5-6, 7-8. This will produce correct continuity, but the pairs are designated to be on pins 3-6 and 4-5 in the middle of the connector for compatibility purposes. As the designated wire pairs are not matched according to wiring standards, the "Split" error will appear. The mismatched pins will flash in the wire map of the LCD screen.



APPENDIX: CABLE WIRING AND DISPLAY SCREEN



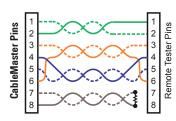
Display Screen





T568A Cable with a Short and an Open

The 1-2 pair pins are shorted together and the 7-8 pair is open. The pins with the errors are flashing. Dash lines (-) on the bottom (remote) display line indicate the short, while no numbers on the bottom line indicate the open pair.





T568A Cable with a Miswire and Unrecognized Continuity

1 and 2 pins on the main tester are connected to pins 2 and 1 at the remote-end. The pins with this error are flashing. The "U" for the remote pin numbers indicates an unrecognizable continuity was detected that is neither a short or open. An ID remote connected to the Tester when in cable test mode would also have shown this error.

CableMaster 400

Test. Identify. Qualify.

User Manual

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